



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Danishefsky et al.

Examiner:

Karen A. Canella

FW

Serial No.:

10/728,041

Art Unit:

1642

Filing Date:

December 3, 2003

Title:

CLUSTERED MULTI-ANTIGENIC CARBOHYDRATE CONSTRUCTS,

METHODS FOR THEIR PREPARATION, AND USES THEREOF

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

TRANSMITTAL

In regard to the above-referenced patent application, enclosed please find the following:

- 1. Statement Filed Pursuant to the Duty of Disclosure Under 37 CFR §§1.56, 1.97 and 1.98 (6 pages);
- 2. Form PTO-1449 (2 pages.);
- 3. Cited Art (10 References); and
- 4. Return-Receipt Postcard.

If any additional fees are required to be paid or if any overpayment has been made, please charge same to Deposit Account No. 03-1721.

Respectfully submitted,

CHOATE, HALL & STEWART

Dated: January $\frac{26}{100}$, 2005

PATENT DEPARTMENT

CHOATE, HALL & STEWART

Boston, Massachusetts 02109

Nadège'M. Lagneau, Ph.D.

Reg. No. 51,908

Certificate of Mailing

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Alexandria, VA 22313-1450 January 28

Date

Kathy Hart Gagnon

Typed or Printed Name of person signing certificate

U.S.S.N. 10/728,041 3789877v1

Exchange Place

53 State Street

Tel: (617) 248-5000

Fax: (617) 248-4000

Atty. Docket No.: 2003080-0142 Client Reference No.: SK-893-B-US

Page 1 of 1



ATTORNEY DOCKET NO.: 2003080-0142 (SK-893-B-US)

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Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

STATEMENT FILED PURSUANT TO THE DUTY OF DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants request consideration of this Information Disclosure Statement.

Type of Statement

The present Information Disclosure Statement is:

- [] An original Information Disclosure Statement; or
- [X] A supplemental Information Disclosure Statement.

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Alexandria, VA 22313-1450

January 8

, 2005

Date

Kathy Hart Gagnon

Typed or Printed Name of person signing certificate

Compliance with 37 CFR § 1.97

The present Information Disclosure Statement is being filed:

[X]	Pursuant to 37 CFR § 1.97(b); no fee or certification is required:					
	[]	Withi	Within three months of the filing date of a national application other than			
		a con	a continued prosecution application under § 1.53(d);			
	[]	Within three months of the date of entry of the national stage as				
		in § 1	.491 in an international application;			
	[X]	Before the mailing of a first Office action on the merits; or				
	[]	Befor	Before the mailing of a first Office action after the filing of a request for			
		continued examination under § 1.114.				
[]	Pursuant to 37 CFR § 1.97(c) after the dates listed above but before the mailing					
	date of any of a final action under § 1.113, a notice of allowance under § 1.311,					
	an action that otherwise closes prosecution in the application; Applicant hereby					
	either:					
	[]	Certifies that either:				
		[]	each item of information contained in the information disclosure			
			statement was first cited in any communication from a foreign			
			patent office in a counterpart foreign application not more than			
			three months prior to the filing of the information disclosure			
			statement; or			
		[]	That no item of information contained in the information			
			disclosure statement was cited in a communication from a foreign			
			patent office in a counterpart foreign application, and, to the Page 2 of 6			

knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.; or

		designated in § 1.30(c) more than three months prior to the ming or		
		the information disclosure statement.; or		
[]	Includ	es herewith the fee set forth in § 1.17(p).		
Pursua	ant to 37	7 CFR § 1.97(d), after the mailing date of any final action under		
§ 1.11	3 , a noti	ice of allowance under § 1.311, or an action that otherwise closes		
prosecution in the application; Applicant hereby both:				
[]	Certifi	ies that either:		
	[]	each item of information contained in the information disclosure		
		statement was first cited in any communication from a foreign		
		patent office in a counterpart foreign application not more than		
		three months prior to the filing of the information disclosure		
		statement; or		
	[]	That no item of information contained in the information		
		disclosure statement was cited in a communication from a foreign		
		patent office in a counterpart foreign application, and, to the		
		knowledge of the person signing the certification after making		
		reasonable inquiry, no item of information contained in the		
		information disclosure statement was known to any individual		
		designated in § 1.56(c) more than three months prior to the filing of		
		the information disclosure statement.; and		

[]	Includes	herewith t	he fee set	forth in	§ 1	.17(p).
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Content of the Information Disclosure Statement

Applicant hereby makes of record in the above-identified application the reference(s) listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

Applicant includes copies of references as indicated below:

- [X] A copy of each cited reference not indicated with a † is included;
- [] Copies of references indicated with a † on the attached form PTO-1449 are not included pursuant to 37 CFR § 1.98(d) because they were previously provided to the United States Patent Office in an Information Disclosure Statement that complies with 37 CFR § 1.98(a)-(c) and was submitted in the following patent application that is relied upon in the present case for an earlier effective filing date under 35 USC § 120:

Serial Number	Filing Date	Status		

[] Copies of English translations of one or more non-English references are included.

Applicants hereby make the following additional information of record in the aboveidentified application:

Applicants certify that the Information Disclosure Statement either:

- [X] Does not contain non-English language citations;
- [] Does contain non-English language citations, of which the following is a concise

explanation:

[] Includes one or more translations of a non-English citation.

Remarks

The submission of this Information Disclosure Statement should not be construed as a representation that a search has been made.

The submission of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b).

The submission of this Information Disclosure Statement shall not be construed as a representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

It is respectfully requested that:

- 1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
- 2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited patent(s) and publication(s) has (have) been fully considered by the Patent and Trademark Office during the examination of this application; and
- 3. The citations for the patent(s) and publication(s) be printed on any patent which issues from this application.

Notwithstanding any statements by Applicants, the Examiner is urged to form his or her own conclusions regarding the relevance of the cited reference(s).

Respectfully submitted,

Nadège M. Lagneau, Ph.D.

Reg. No. 51,908

Date:

January 26, 2005

PATENT DEPARTMENT CHOATE, HALL & STEWART Exchange Place 53 State Street Boston, Massachusetts 02109

Tel: (617) 248-5000 Fax: (617) 248-4000

Form PTO-144	9 U.S. Depa	artment of Commerce	Attorney Docket	Oocket In re Applica			
(RP) Patent and Trademark Office			2003080-0142	No.			
			(SK-893-B-US)	10/728,041			
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	DISCLOSURE STAT		Filing Date: Group:				
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JAN 3 1 2005							
U.S. PATENT I	DOCUMENTS						
Examiner's	U.S. Patent No.	Applicant	Issue Date	Class	Sub		
Initials					class		
		M. 1. 499, 4. 781.					
U.S. PATENT A	APPLICATIONS	I					
Examiner's	Serial Number:	Applicant:	Filing Date:	Group:	Art		
Initials:					Unit:		
FOREIGN PAT	TENT DOCUMENTS						
Examiner's	Examiner's Document No. Country International Public				on Translation		
Initials			Date				
				Yes	No		
/KAC/	WO 97/03995	WIPO	February 6, 1997				
1997							
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OTHER DOCU	<u> </u> MENTS				<u> </u>		
1							
Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)						
/KAC/	Chen et al., "Exploration of Modalities in Building a α-O-Linked Systems Through Glycal Assembly: A Total Synthesis of the Mucin-Related F1α Antigen" J. Am. Chem. Soc., 120, 7760-7769, 1998.						
/KAC/	Kudryashov <i>et al.</i> "Immunogenicity of Synthetic Conjugates of Lewis ^y Oligosaccharide with Proteins in Mice: Towards the Design of Anticancer Vaccines," <i>Cancer Immunol Immunother</i> , 45 , 281-286, 1998.						
/KAC/	Kuduk et al. "Synthetic and Immunological Studies on Clustered Modes of Mucin-Related Tn and TF O-Linked Antigens: The Preparation of a Glycopeptide-Based Vaccine for Clinical Trials against Prostate Cancer," J. Am. Chem. Soc., 120, 12474-12485, 1998.						

Form PTO-1449 U.S. Department of Commerce Attorney Docket In re Application (REV, 8-83 No. Patent and Trademark Office 2003080-0142 10/728,041 (SK-893-B-US) **INFORMATION** Applicant: Danishefsky et al. 3 1 2005 DASCLOSURE STATEMENT Filing Date: Group: se several sheets if necessary) December 3, 2003 1642 BADEMAE Liu et al., "Structurally Defined Synthetic Cancer Vaccines: Analysis of Structure, /KAC/ Glycosylation and Recognition of cancer Associated Mucin, MUC-1 Derived Peptides," Glycoconjugate Journal, 12, 607-617. 1995 Paulsen et al., "Sysnthesis of the Glycosyl Amino Acids....," Carbohydrate Research, 268, /KAC/ 17-34, 1995 Qiu et al., "Mucin Type Glycopeptides: Synthesis of Core 2, Core 6 and F1-α Building Blocks /KAC/ and Unexpected Reactions," Tetrahedron Letters, 38(1), 45-48, 1997. /KAC/ Sames et al., "Convergent Total Synthesis of a Tumor-Associated Mucin Motif," Nature, 389, 587-591, 1997. Toyokuni et al., "Synthetic Vaccines: Synthesis of a Dimeric Tn Antigen-Lipopeptide /KAC/ Conjugate that Elicits Immune Responses Against Tn-Expressing Glycoproteins," J. Am. Chem. Soc., 116, 395-396, 1994. /KAC/ Zhang, et al., "Selection of Tumor Agents as Targets for Immune Attack Using Immunohistochemistry: II. Blood Group Related Antigens," Int. J. Cancer, 73, 50-56, 1997. /Karen A. Canella. Ph.D./ 09/15/2009 **EXAMINER:**

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.